

10/695,896

Listing of Claims:

Cancel claims 1 to 37 and claims 43 to 59, without prejudice.

This listing of claims will replace all prior versions and listings of claims in the application:

1. to 37. (currently canceled)

38. (currently amended) ~~Assembly~~ An apparatus for making a web of paper or board containing calcium carbonate, ~~the assembly~~ comprising:

a means ~~(12-15)~~ for supporting a web ~~(11)~~ being formed; and

a means ~~(1-7, 21-25)~~ for forming calcium carbonate at least on ~~the~~ a surface of said web ~~(11)~~, ~~characterized in that said means for forming calcium carbonate comprise at least~~ comprising means ~~(22)~~ for feeding calcium hydroxide into contact with the surface of said web ~~(11)~~, and a chamber ~~(22)~~ via through which said web ~~(11)~~ is adapted to travel and into which chamber is ~~passed~~ fed carbon dioxide containing gas ~~in order to react~~ so that the carbon dioxide reacts with the calcium hydroxide so as to form calcium carbonate.

39. (currently amended) ~~Assembly according to~~ The apparatus of claim 38, ~~characterized in that wherein~~ said means for feeding calcium hydroxide ~~into contact with the surface of said web (11) comprise at least~~ comprises a means ~~(1-7, 21-23)~~ for applying slaked lime on the surface of said web ~~(11)~~ and means ~~(21)~~ for reacting said slaked lime with water ~~in order~~ to form calcium hydroxide.

40. (currently amended) ~~Assembly according to~~ The apparatus of claim 38, ~~characterized in that wherein~~ said means for feeding calcium hydroxide ~~on the surface of said web (11) comprise~~ comprises gas-atomizing liquid jet nozzles ~~in through~~ which calcium hydroxide solution ~~is sprayed via the nozzle jet orifice~~ and carbon-dioxide-containing gas ~~is~~ are discharged ~~via the atomizing orifices of the nozzle, whereby the~~ in such a way that a reaction between said ~~two components~~ calcium hydroxide solution and the carbon-dioxide-containing gas forms calcium carbonate.

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41. (currently amended) ~~Assembly according to~~ The apparatus of claim 38 39,
~~characterized in that wherein~~ said means for feeding slaked lime on the surface of said web (11)
~~comprise comprises:~~

a means ~~(1, 2, 3, 21)~~ for feeding mineral-based materials or other furnish required in the
making of a paper or board web or a nonwoven product onto the surface of a web (11) ~~travelling~~
~~on support means;~~ ;

at least one connection ~~(16)~~ for applying ~~a first~~ an electrical potential to said web-
supporting means ~~(12-15) thus forming to form~~ a first electrode ; ;

at least one second electrode ~~(22)~~ disposed at a distance from a surface of said web-
supporting means ~~(15)~~ forming said first electrode ; ; and

a high-voltage supply ~~(23) for elevating the voltage to enable formation of a potential~~
difference between said first electrode ~~(15)~~ and said at least one second electrode ~~(22)~~ so high
~~that~~ as to establish a corona discharge ~~in the vicinity of said second higher potential electrode~~
~~(22) between said at least one second electrode and said web-supporting means forming said first~~
~~electrode, said discharge being capable of causing an ion blast from said second higher potential~~
~~electrode (22) to said first lower potential electrode (15), whereby said ion blast transports the~~
~~sufficient to transport~~ particulate raw material existing ~~in the space between said potentials (15,~~
~~22) onto electrodes toward said web formation substrate (11) web running on said web-~~
~~supporting means (15) and assures the adherence of the raw material to the substrate (11) to~~
contact and adhere to said web.

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42. (currently amended) ~~Assembly according to~~ The apparatus of claim 41,
~~characterized by further comprising:~~

an ion-blast chamber ~~(21) via through~~ which the moving web (11) being treated is
adapted to pass and ~~into whose interior~~ within which said at least ~~on one~~ second electrode ~~(22)~~ is
disposed ; ; and,

a means ~~(3)~~ for keeping said ~~treatment~~ particulate raw material of microscopic particles
in a continuous turbulent motion at least within the interior of said ion-blast chamber.

43. to 59. (currently canceled)